



7G7

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## SHARP-CUTOFF PENTODE

## GENERAL DATA

## Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3<sup>□</sup> . . . . . ac or dc voltsCurrent. . . . . 0.45<sup>□□</sup> . . . . . ampDirect Interelectrode Capacitances:<sup>○</sup>

Grid No.1 to Plate . . . 0.007 max. . . . . μμf

Input. . . . . 9 . . . . . μμf

Output . . . . . 7 . . . . . μμf

<sup>○</sup> With external shield connected to cathode.

## Mechanical:

Mounting Position. . . . . Any

Maximum Overall Length . . . . . 2-25/32"

Maximum Seated Length. . . . . 2-1/4"

Maximum Diameter . . . . . 1-3/16"

Bulb . . . . . T-9

Base . . . . . Lock-in 8-Pin

Basing Designation for BOTTOM VIEW . . . . . 8V

Pin 1 - Heater

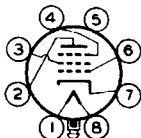
Pin 2 - Plate

Pin 3 - Grid No.2

Pin 4 - Grid No.3

Pin 5 - Internal

Shield



Pin 6 - Grid No.1

Pin 7 - Cathode

Pin 8 - Heater

Plug - Base  
ShellAMPLIFIER - Class A<sub>1</sub>

## Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 300 max. volts ←

GRID-NO.2 (SCREEN) VOLTAGE . . . . . 100 max. volts ←

GRID-NO.2 SUPPLY VOLTAGE . . . . . 300 max. volts ←

PLATE DISSIPATION. . . . . 1.5 max. watts ←

GRID-NO.2 DISSIPATION. . . . . 0.3 max. watt ←

## PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . 90 max. volts ←

Heater positive with respect to cathode . . . 90 max. volts ←

## Typical Operation and Characteristics:

Plate Voltage. . . . . 250 . . . volts

Grid No.3 . . . . . Connected to cathode at socket

Internal Shield . . . . . Connected to cathode at socket

Grid-No.2 Voltage. . . . . 100 . . . volts

Grid-No.1 Voltage. . . . . -2 . . . volts

Cathode-Bias Resistor. . . . . 250 . . . ohms

Plate Resistance (Approx.) . . . . . 0.8 . . . megohm

Transconductance . . . . . 4500 . . . μmhos

(continued on next page)

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.48 ampere.

← Indicates a change.

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## SHARP-CUTOFF PENTODE

→ Grid-No.1 Bias (Approx.) for			
Cathode Current Cutoff . . . . .	-7	..	volts
Plate Current. . . . .	6	..	ma
Grid-No.2 Current. . . . .	2	..	ma

→ indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA